

cards can be used and filed away. The weather reports in the "New York Times" are furnished by Mr. Becker's instrument. The Becker aneroid pile is essentially the same which Mr. Beaumont employs in his manufacture of steam gauges and aneroid barometers, in Centre Street, New York.

Pending nominations Nos. 397 to 415 were read, and the Society adjourned.

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*Stated Meeting, July 20, 1860.*

Present, six members.

Professor CRESSON, Vice-President, in the Chair.

Letters acknowledging the reception of the last issue of Transactions, Proceedings, Laws, and List of Members, were read from the Royal Academy at Berlin, dated December 31, 1859; the Horticultural Society, Berlin, April 5; the Royal Society, Edinburgh, April 28, 1859; the Massachusetts Historical Society, and Mr. Edward Everett, of Boston, June 16; the Corporation of Harvard College, June 18; the American Antiquarian Society, June 25; the Connecticut Historical Society, Hartford, and Charles W. Polman, of New York, in behalf of the Westeraas Library, in Sweden, June 20; the New Jersey Historical Society, Newark, and the State Library, at Harrisburg, June 20; the Smithsonian Institution, at Washington, dated March 16, March 21, and April 15, and the Academy of Science, at St. Louis, June 23, 1860.

Letters announcing donations were read from the Royal Academy, Berlin, dated December 31; the Imperial Academy, Vienna, March, 1860; the Horticultural Society, at Berlin, April 5, and W. C. H. Staring, of Harlem, January 16, 1860.

The following donations for the Library were announced :

Monatsbericht der Königlichen Preuss. Akad. der Wissen. zu Berlin, Jan. to Dec., 1859, except May.—Abhandlungen derselben für 1858. 1000 pp. 4to. Für 1854. 800 pp. 4to, being 2d supplement-band and separate memoir, as follows :

Die Spuren der Astekischen Sprache im nordlichen Mexico, und höheren Amerikanischen Norden. Zugleich, eine musterung der Völker und Sprachen des nordlichen Mexico, und der Westseite Nord Amerikas, von Guadalaxara an bis zum Eismeer : von Joh. Carl Ed. Buschmann, Berlin, 1859.

Sitzungsberichte der Kaiserlichen Akad. der Wissenschaften. *Mathematisch naturwissenschaftliche Classe*, XXXVII Band, Nos. 21, 22 ; XXXVIII, 23, 24, 25, 26, 27, 28 ; XXXIX, 1, 2. *Philosophisch-historische Classe*, XXX Band, 2, 3 heften, February, March, 1859 ; XXXII 2, 3, 4 October, November, December, 1859, 8vo.

Bulletin de l'Academie Imperiale des Sciences de St. Petersburg, Tome I, feuilles 1, 2, 3, 4, 5, 6, 7, 8, 9. 4°. (This commences a new series and reunites the two former bulletins, *Physico-Mathématique* and *Historico-Philologique* ; but the *Mélanges* will continue to be published separately in six classes : Astronomy and Mathematics, Physics and Chemistry, Biology, Russian, Grecian, and Asiatic.)

Mémoires de l'Academie, in fifteen separate numbers, composing Tome I, 4to.

Verhandlungen des Vereines zur Beförderung des Gartenbaues in den Königliche Preussischen Staaten, VII Jahrgang, 2 heften, Oct., Dec., 1859. 8vo. (This ends the series. The Society has resolved to make Koch's *Wochenschrift* its future organ.)

Wochenschrift des Vereines zur Beförderung des Gartenbaues in den Königliche Preussischen Staaten für Gärtnerei und Pflanzenkunde. Redigirt von dem General Secretair des Vereins, Professor Dr. Koch, Nos. 1 to 13. From 5 Jan. to 29 Marz., 1860. Berlin. Large 8vo.

Monographie des brachiopodes fossiles du terrain crétacé supérieur du Duché de Limbourg, par J. Bosquet. Extrait du troisième Vol. des *Mém. pour servir á la description géologique de la Néerland*. Acad. R. des Sci. Haarlem, 1859. 4to. (To be followed by others, if acknowledged.)

- Extrait du programme de la Société Hollandaise des Sciences, pour l'année 1860. 4 pages, 4to.
- The Northmen in Iceland. Société Royal des Antiquaires du Nord. Seance annuelle de 14 May, 1859. (Bound vol. 50 pp. 8vo. containing list of members, &c.).
- Cabinettel for Americanske oldsager, page 9 to 13. 8vo. and 4 page circular.
- Monthly Notices of R. Astronomical Soc. Vol. XX, No. 7.
- Quarterly Journal of the Chem. Soc. No. xlix.
- Transactions of the Roy. Soc. of Edinburgh, Vol. XXII, Part 1, for 1857'8, and 1858'9. 8vo.
- Proceedings of the same. Session 1858'9. 8vo.
- Astronomical Journal, No. 135. Cambridge, Mass.
- Proceedings of the B. S. N. II., Vol. VII, 17, 18. 8vo.
- Thirty-sixth Annual Report of the Officers of the Retreat for the Insane at Hartford, Conn., April, 1860. Pamph. 40 pp. 8vo.
- Am. Journal Sci. Art., July, 1860. XXX, 80.—*From the ed.*
- Mercantile Lib. Assoc., Thirty-ninth Ann. Rep., 1859'60. 8vo.
- Charter, &c. of the Cooper Union, 1859. 8vo.—*From J. T. Hodge.*
- Journal, Franklin Institute, July, 1860. (XL, 1.)
- Proceedings, Acad. N. S., Philadelphia, Sep., 145, 192. 1860.
- Am. Journal of the Medical Sciences, July, 1860.—*From the pub.*
- Medical News and Library, July, 1860.—*From the publishers.*
- African Repository, July, 1860.—*From the Am. Col. Soc.*
- Second Ann. Rep. Chicago Charitable Eye and Ear Infirmary, presented by the Board of Surgeons, May 1, 1860. 8 pp. 8vo.
- Wahnemungen bei einer bereisung des Kupfer-und bleigebietes im N. W. theile der V. S. N. Amer., Von Dr. Charles Meyer Wetherill, aus dem Englischen manuscript übersetzt von A. H. Grafen Marschall. (Aus dem Jahrbuche der K. K. G. R. Wien, VII J., 1856, IV vier. Seite 771.)—*From the author.*
- Smithsonian Contributions to Knowledge, Vol. XI.—*From the Inst.*
- Journal of the Select Council of the City of Philadelphia, Nov. 10, 1859; May 3, 1860. 8vo. Phila. 1860.
- Report of the Pennsylvania Hospital for the Insane, for 1859, by Thomas S. Kirkbride, M.D. 8vo. pamph.—*From the author.*

Professor Lesley exhibited and explained a new aneroid, made lately to his order, by Becker & Sons, 54 Columbia Street, Brooklyn. Two piles of six small air-boxes each,

operate side by side together, through a medial rod and two bent levers, upon a pinion on the axle of the index. The pinion is driven by a T ratchet, set crosswise of the second lever end. It is bent to an arc of about one and a-half inches radius, and armed with forty minute teeth. The heel of this lever is provided with adjusting screws to determine the proportional motion of the index to the air-box lids. The index point, outside, traverses the entire circuit of the dial-plate during a rise or fall of *two mercurial* inches, so that the half-hundredth divisions on the dial-plate enable the topographer to read altitudes of five feet, which he can subdivide by the eye, after practice, into *single feet*. The instrument is made with great nicety and beauty, and satisfies a want long felt by practical field geologists. The accomplished maker considers it thermo-compensating; but Mr. Lesley's long experience with aneroids of various make and size, leads him to believe that this beautiful instrument, so far in advance of any other yet constructed, will prove no exception to the rule, that it is necessary to provide for each instrument its own scale of thermometric variation. The adjusting screws within, will enable the observer to make the instrument conform either to a mercurial standard reading half-hundredths of a mercurial inch,—or to a hypsometric standard of a thousand feet. In the former case, a proportional correction must be made of thousandths of an inch to a foot; in the latter case, the instrument will, within a moderate range, make the correction itself. To meet the difficulty of recording great altitudes (over two thousand feet), Mr. Becker has applied an exterior adjustment. A large set screw, marked with the barometric inches on a small scale, projects below, and returns the index to the place of commencement after that a great ascent or descent has carried it round the circle.

Prof. Cresson described the plans of Prof. Lowe, the aeronaut, for crossing the Atlantic in thirty hours, by a balloon of seven hundred thousand cubic feet capacity (using but four hundred thousand), charged with city gas (of forty pounds to the thousand feet ascensional power), and floating in the highest, and therefore swiftest, northeastward moving strata

of the atmosphere, the intense cold of which he will oppose by slaking lime in iron box-stoves.

Pending nominations Nos. 397 to 415 were read and balloted for; and, there being no further business, the ballot-boxes were opened, and the following named gentlemen declared duly elected members of the Society:

- Dr. F. V. Hayden, of Washington.
- Mr. Sidney George Fisher, of Philadelphia.
- Sir Roderick Impy Murchison, of England.
- Rev. Adam Sedgewick, of England.
- Prof. Léonce Elie de Beaumont, of Paris.
- Prof. Henry Milne Edwards, of Paris.
- Dr. H. D. Bronn, of Heidelberg.
- Dr. Theodor Ludwig Wilhelm Bischoff, of München.
- Dr. Hermann Von Meyer, of Frankfort-on-Maine.
- Prof. Andreas Wagner, of München.
- Prof. Joseph Hyrtl, of Vienna.
- Sir William Logan, of Montreal.
- Prof. Heinrich Rose, of Berlin.
- Prof. George Jäger, of Stuttgard.
- M. St. Clair Deville, of Paris.
- Prof. William H. Harvey, of Dublin.
- Prof. Jean Baptiste Dumas, of Paris.
- Mr. Edward Verneuil, of Paris.
- Mr. Claude Bernard, of Paris.

And the Society was adjourned.